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(54) Title: FUNCTIONAL SCREENING METHOD INVOLVING PROTEIN TRANSLOCATION/REDISTRIBUTION

(57) Abstract: The present invention provides high-throughput functional genomic methods for determining gene and protein function in a cellular context. Also provided are methods for identifying chemical modulators of gene and protein/enzyme activity. Assays are generated in concert with screening in an iterative process which expands the scope of biological coverage with each iteration and which uses image-based analysis to yield data at sub-cellular resolution.



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INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER
 IPC 7 G01N33/50 G01N33/68 C12N15/10

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 G01N C12N

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, EMBASE, PAJ, BIOSIS, MEDLINE

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	WO 00 68661 A (GORDON ADRIENNE S ; DIAMOND IVAN (US); YAO LINA (US)) 16 November 2000 (2000-11-16)	1,9-11, 15,17-23
Y	page 13, line 24 -page 14, line 9; claims 21-64 ---	1-23
X	WO 98 45704 A (TULLIN SOEREN ; KASPER ALMHOLT (DK); NOVONORDISK AS (DK); SCUDDER K) 15 October 1998 (1998-10-15)	1,4, 7-12,15, 17,18, 20-23
Y	claims 74,82; example 1 ---	1-23
X	WO 00 20859 A (UNIV DUKE ; MEYER TOBIAS (US)) 13 April 2000 (2000-04-13) claims 12,16,18; examples 1-6 ---	1,4, 7-11, 15-20
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT		
Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	WO 99 35501 A (UNIV TORONTO) 15 July 1999 (1999-07-15) claim 7; example 7 -----	1,4,7,8

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